PROJECT DESCRIPTION

GENERAL THIS PROJECT INVOLVES THE INSTALLATION OF APS AND COUNTDOWN PEDESTRIAN SIGNALS ACROSS THE NORTH AND EAST LEGS AT THE INTERSECTION OF MD 704 (MARTIN LUTHER KING JR. HIGHWAY) AND JOHNSON AVENUE IN PRINCE GEORGE'S COUNTY. THE SIGNALIZED PEDESTRIAN CROSSINGS ACROSS THE SOUTH AND WEST LEGS OF THE INTERSECTION WILL BE REMOVED. THE EXISTING VEHICULAR SIGNAL HEADS WILL BE REPLACED WITH LED VEHICULAR SIGNAL HEADS AND NEW NEARSIDE LED VEHICULAR SIGNAL HEADS WILL BE ADDED FOR JOHNSON AVENUE. MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EXISTING PHASE 2 AND PHASE 8 PEDESTRIAN PHASES WILL REMAIN. THE PHASE 4 AND PHASE 6 PEDESTRIAN PHASES WILL BE REMOVED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER AND ASSOCIATED HARNESSES WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (I) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

- TO CROSS MARTIN LUTHER KING JR. HIGHWAY
- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS MARTIN LUTHER KING JR. HWY. AT JOHNSON AVENUE*
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- TO CROSS JOHNSON AVENUE
- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS JOHNSON AVENUE AT MARTIN LUTHER KING JR. HWY."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS ARE AS FOLLOWS:

District #3

Mr. Brian Young Assistant District Engineer - Traffic Phone: 301-513-7404

Mr. Augie Rebish District Utility Engineer Phone: 301-513-7350

Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: 301-513-7304

Mr. Kevin Nowak Assistant District Engineer - Construction Phone: 301-513-7385

Office Of Traffic & Safety

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

Mr. Robert Snyder Assistant Division Chief, Traffic Operations 410-787-7630

Mr. Edward Rodenhizer Team Leader Signal Operations Phone: 410-787-7650

Mr. Eugene Bailey Team Leader Sign Operations 410-787-7670

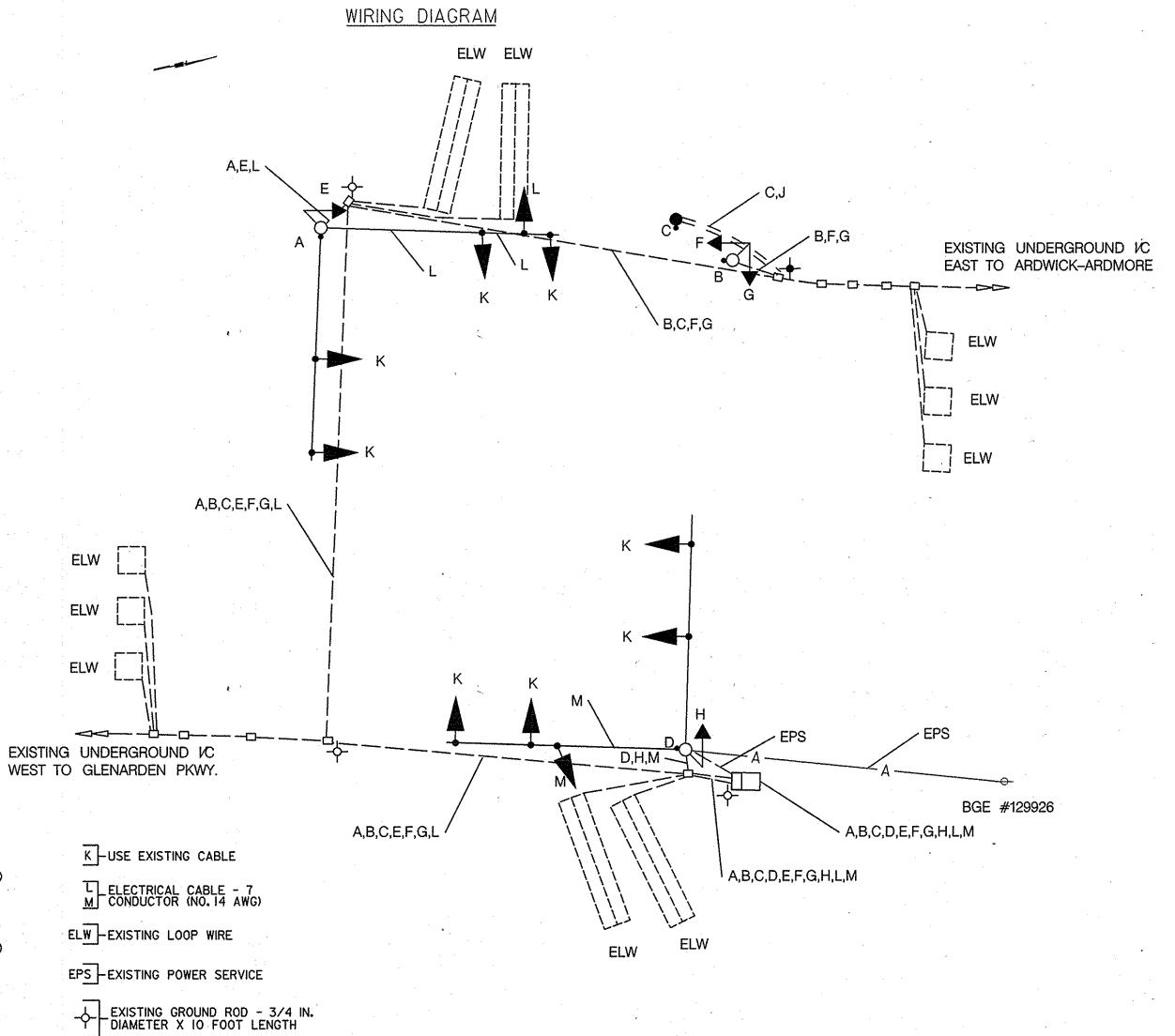
The Power Company Representative is: Baltimore Gas & Electirc 7317 Parkway Drive South Hanover, MD 21076 Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED BY THE SHA.	EQUIPMENT	TO BE FURNIS	HED AND INSTALLED BY THE CONTRACTOR.
ITEM NO. QUANTITY DESCRIPTION	ITEM NO.	QUANTITY	DESCRIPTION
957I 75 SF (UPDATED) SHEET ALUMINUM MAST AI	RM /	2 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
POLE MOUNTED SIGNS:	1002	1200 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
2 EA - RIO-3(I) (9 IN. × 15 IN.)	2002	2 CY	TEST PIT EXCAVATION
PUSH BUTTON TO CROSS MLK JR. HW	7Y 500I	120 LF	5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
2 EA - RIO-3(I) (9 IN. × I5 IN.) "PUSH BUTTON TO CROSS JOHNSON A	VF* 5002	370 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
	5003	140LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
I EA SHIELD ASSEMBLY (30 IN. × 51 IN "EAST, MD 704, RIGHT ARROW"	6001	140 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
I EA SHIELD ASSEMBLY (30 IN. × 51 IN	1.) 6002	600 SF	5 INCH CONCRETE SIDEWALK
"WEST, MD 704, RIGHT ARROW"	8000	4 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARRO
I EA SHIELD ASSEMBLY (48 IN. × 75 I	N.) 8001	30 EA	12 INCH (R,Y,G) LED SIGNAL HEAD SECTION
"EAST, MD 704, LEFT ARROW"	8003	l EA	2 WIRE CENTRAL CONTROL UNIT
I EA SHIELD ASSEMBLY (48 IN. x 75 I "WEST, MD 704, LEFT ARROW"	N.) 8010	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
WEST, IND. 18 II, AUTON	8011	I EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
	8014	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
	8016	I EA	REMOVE & DISPOSE OF EQUIPMENT PER ASSIGNMENT
<u>EQUIPMENT LIST 'C'</u>	8018	I EA	REMOVE FOUNDATION 12 INCH DEPTH
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.		50 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
	8028	62 SF	DETECTABLE WARNING SURFACES
ITEM NO. QUANTITY DESCRIPTION	8033	50 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE	8046	75 SF	INSTALL OVERHEAD SIGN
PROPERTY OF THE CONTRACTOR	8055	1000 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
	8057	1000 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
	8058	450 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)



PHASE CHART

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	1	2	3	4	5	6	7	8	9	10	9	10	11	12	
	R Y G	RYG	RYG	RYG	R S G	R Y G	RYG	R Y G	R Y G	(R)>(G)					
PHASE 2 AND 6	G	G	G	G	R'	R	R	R	R	R	W/K	W/K	DW	DW	→ 00
2 AND 6 PED. CLEARANCE	G	G	G	G	R	R	R	R	R	R	FL⁄DW	FL/DW	DW	DW	7
PHASE 2 AND 6 CHANGE	Υ	Υ	Υ	Υ	R	R	R	R	R	R	DW	DW	DW	DW	\>
PHASE 4 AND 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	<u></u>
PHASE 4 AND 8 CHANGE	R	R	R	R	Υ,	Υ	Υ	Y	Υ	Υ	DW	DW	DW	DW	¹
PHASE 8 ALT.	R	R	R	R	G	G	G	G	G	G	DW	DW	W/K	W/K	т Д°
8 ALT. PED CLEARANCE	R	R	R	R	G	G	G	G	G	G	DW	DW	FL⁄DW	FL⁄DW	
PHASE 8 ALT. CHANGE	R	R	R	R	Υ	Υ	Υ	Υ	Υ	Υ	DW	DW	DW	DW	դ
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	+ Δ + + + + + + + + + + + + + + + + +

SHA No: PG556A53/B53 TOD No: XX449-03 MD 704 @ Johnson Avenue

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 704 (MARTIN LUTHER KING JR. HIGHWAY) AT JOHNSON AVENUE

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GEN	EKAL II	NFORM/	NOIL	

DESIGNED BY	MCG	COUNTY	PRINCE GEORGE'S
DRAWN BY	MCG	LOGMILE	16070403.75
CHECKED BY	BAB CSW	TIMS NO	I-520
F.A.P. NO.		TOD NO.	

Incorporated

PROPOSED GROUND ROD - 3/4 IN.
DIAMETER X 10 FOOT LENGTH

engineers /architects /planners /construction managers 125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

F ELECTRICAL CABLE - 5 G CONDUCTOR (NO. 14 AWG)

J-NO. 6 STRANDED BARE COPPER GROUND WIRE

PLOTTED: Wednesday, April 30, 2008 AT 03:24 PM FILE: I:\PROJECTS\0312513\0312513_0084\Drawings\TRA\pSG=N002_MD704.dgn